

Chapter 135: HEXAVALENT CHROMIUM PARTICULATE EMISSION STANDARD

SUMMARY: This regulation establishes a limitation on the amount of hexavalent chromium allowed to be emitted from any potential source of hexavalent chromium and a limitation of the amount of total chromium until a technique for measuring hexavalent chromium can be demonstrated.

- 1. Scope.** This regulation shall be effective in all ambient air quality control regions in the State of Maine.
- 2. Definition.** A potential source of hexavalent chromium air emissions shall be defined as follows: any fuel burning equipment, incinerator, or general process source which handles material containing total aggregate chromium concentration in excess of 0.05 percent (or 500 parts per million) by weight.
- 3. Emission Standards.** The emission standards for any potential source of hexavalent chromium air emissions shall represent the lowest emission rate of hexavalent chromium which is technologically achievable. The emission standards will be decided on a case-by-case basis, with the following conditions representing the minimum requirements:
 - A.** Any potential source of hexavalent chromium air emissions must demonstrate compliance with the ambient air quality standards;
 - B.** If a source cannot demonstrate to the satisfaction of the Commissioner a technique for measuring hexavalent chromium at the emission source, its modeled air quality impact shall be derived from its total chromium emissions and shall not exceed a 24-hour ambient concentration of 25 nanograms per cubic meter;
 - C.** The modeled impact derived from hexavalent chromium emissions shall not exceed the limits specified in Chapter 110 Section 12(b)(1).
- 4. Exemptions.** Chromium emissions resulting from metal plating operations, the preparation of chrome tanning liquors, or from processes, including leather processing, in which chromium is present only in the trivalent oxidation state shall not be subject to these emission requirements.

AUTHORITY: 38 M.R.S.A. Section 585, 585-A

EFFECTIVE DATE: January 24, 1983
 Amended: November 3, 1990

BASIS STATEMENT

The basis of this regulation is to limit emissions of hexavalent chromium and total chromium so as to protect the ambient air quality standard.

BASIS STATEMENT FOR AMENDMENT OF SEPTEMBER 26, 1990

During the 114th Session of the Maine Legislature, the Board of Environmental Protection was given the authority under 38 M.R.S.A., 585 and 585-A to establish and amend emission standards and regulations to implement ambient air quality standards and emission standards. This rule was amended to reflect the new authority under statute. No request for public hearing nor comments were received on the reauthorization.